Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1. (Canceled)
- 2. (Currently amended) The \underline{A} solid-state imaging apparatus according to claim 1, wherein comprising:
- a plurality of photosensitive cells disposed in a matrix in a photosensitive region on a semiconductor substrate; and
 - a driving unit for driving the plurality of photosensitive cells,
 - wherein each of the photosensitive cells includes:
- a photodiode formed to be exposed on a surface of the semiconductor substrate, for accumulating signal charge obtained by subjecting incident light to photoelectric exchange;
- a transfer transistor formed on the semiconductor substrate, for transferring the signal charge accumulated in the photodiode;
- a floating diffusion layer formed on the semiconductor substrate, for temporarily accumulating the signal charge transferred by the transfer transistor; and
- an amplifier transistor formed on the semiconductor substrate, for amplifying the signal charge temporarily accumulated in the floating diffusion layer,
- wherein a source/drain diffusion layer provided in the amplifier transistor is covered with a salicide layer,
- the floating diffusion layer is formed to be exposed on the surface of the semiconductor substrate, and
- an impurity concentration of the floating diffusion layer is lower than an impurity concentration of the source/drain diffusion layer of the amplifier transistor.

- (Currently amended) The A solid-state imaging apparatus according to claim 1, 3. wherein comprising:
- a plurality of photosensitive cells disposed in a matrix in a photosensitive region on a semiconductor substrate; and

a driving unit for driving the plurality of photosensitive cells,

wherein each of the photosensitive cells includes:

a photodiode formed to be exposed on a surface of the semiconductor substrate. for accumulating signal charge obtained by subjecting incident light to photoelectric exchange;

a transfer transistor formed on the semiconductor substrate, for transferring the signal charge accumulated in the photodiode;

a floating diffusion layer formed on the semiconductor substrate, for temporarily accumulating the signal charge transferred by the transfer transistor; and

an amplifier transistor formed on the semiconductor substrate, for amplifying the signal charge temporarily accumulated in the floating diffusion layer,

wherein a source/drain diffusion layer provided in the amplifier transistor is covered with a salicide layer,

the floating diffusion layer is formed to be exposed on the surface of the semiconductor substrate.

each of the photosensitive cells further includes a reset transistor for resetting the floating diffusion layer,

the driving unit includes:

- a vertical driver circuit for simultaneously driving the transfer transistor and the reset transistor in a vertical direction;
- a noise suppressing circuit for obtaining a signal output to a plurality of vertical signal lines disposed in a vertical direction in the photosensitive region; and
- a horizontal driver circuit for outputting a signal from the noise suppressing circuit in a time series by successively switching a plurality of horizontal transistors disposed in a horizontal direction, and

an impurity concentration of the floating diffusion layer is lower than an impurity concentration of a source/drain diffusion layer provided in a plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit.

- 4. (Original) The solid-state imaging apparatus according to claim 3, wherein the source/drain diffusion layer provided in the plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit is covered with a salicide layer.
- 5. (Currently amended) The solid-state imaging apparatus according to claim [[1]] 2, wherein the transfer transistor and the amplifier transistor are composed of an n-type MOS transistor.
- 6. (Original) The solid-state imaging apparatus according to claim 3, wherein the vertical driver circuit and the horizontal driver circuit are composed of a dynamic logic circuit.
- 7. (Original) The solid-state imaging apparatus according to claim 3, wherein an impurity concentration of a source/drain diffusion layer of a part of the plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit is lower than an impurity concentration of a source/drain diffusion layer of another part of the plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit.
- 8. (Original) The solid-state imaging apparatus according to claim 3, wherein a source/drain diffusion layer of a part of the plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit is formed to be exposed on a surface of the semiconductor substrate, and a source/drain diffusion layer of another part of the plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit is covered with a salicide layer.

- 9. (Currently amended) The solid-state imaging apparatus according to claim [[1]] 2, wherein an impurity concentration of the floating diffusion layer is $I \times 10^{18}$ cm⁻³ or less.
- 10. (Withdrawn) A method for producing a solid-state imaging apparatus comprising: a plurality of photosensitive cells disposed in a matrix in a photosensitive region on a semiconductor substrate; and

a driving unit for driving the plurality of photosensitive cells,

wherein each of the photosensitive cells includes:

a photodiode formed to be exposed on a surface of the semiconductor substrate, for accumulating signal charge obtained by subjecting incident light to photoelectric exchange;

a transfer transistor formed on the semiconductor substrate, for transferring the signal charge accumulated in the photodiode;

a floating diffusion layer formed on the semiconductor substrate, for temporarily accumulating the signal charge transferred by the transfer transistor; and

an amplifier transistor formed on the semiconductor substrate, for amplifying the signal charge temporarily accumulated in the floating diffusion layer,

wherein a source/drain diffusion layer provided in the amplifier transistor is covered with a salicide layer, and the floating diffusion layer is formed to be exposed on the surface of the semiconductor substrate,

the method comprising:

forming the photodiode, the transfer transistor, and the amplifier transistor on the semiconductor substrate;

forming a resist in a predetermined pattern so as to cover the photodiode, the transfer transistor, and the amplifier transistor;

implanting ions into the semiconductor substrate using the resist as a mask so as to form the floating diffusion layer;

removing the resist and forming a salicide blocking film so as to cover the floating diffusion layer and the photodiode;

forming a source/drain diffusion layer of the amplifier transistor; and

forming a salicide layer so as to cover the source/drain diffusion layer of the amplifier transistor.

- 11. (Withdrawn) The method for producing the solid-state imaging apparatus according to claim 10, wherein an impurity concentration of the floating diffusion layer is lower than an impurity concentration of the source/drain diffusion layer of the amplifier transistor.
- 12. (Withdrawn) A method for producing a solid-state imaging apparatus comprising: a plurality of photosensitive cells disposed in a matrix in a photosensitive region on a semiconductor substrate; and

a driving unit for driving the plurality of photosensitive cells,

wherein each of the photosensitive cells includes:

a photodiode formed to be exposed on a surface of the semiconductor substrate, for accumulating signal charge obtained by subjecting incident light to photoelectric exchange;

a transfer transistor formed on the semiconductor substrate, for transferring the signal charge accumulated in the photodiode;

a floating diffusion layer formed on the semiconductor substrate, for temporarily accumulating the signal charge transferred by the transfer transistor; and

an amplifier transistor formed on the semiconductor substrate, for amplifying the signal charge temporarily accumulated in the floating diffusion layer,

wherein a source/drain diffusion layer provided in the amplifier transistor is covered with a salicide layer, and the floating diffusion layer is formed to be exposed on the surface of the semiconductor substrate,

the method comprising:

forming a resist in a predetermined pattern on the semiconductor substrate; implanting ions using the resist as a mask so as to form the photodiode; removing the resist and forming the transfer transistor and the amplifier transistor

on the semiconductor substrate;

forming a first salicide blocking film so as to cover the photodiode;

implanting ions into the semiconductor substrate so as to form the floating diffusion layer and the source/drain diffusion layer of the amplifier transistor;

forming a second salicide blocking film so as to cover the floating diffusion layer; and

forming a salicide layer so as to cover the source/drain diffusion layer of the amplifier transistor.

13. (Withdrawn) The method for producing the solid-state imaging apparatus according to claim 12, wherein an impurity concentration of the floating diffusion layer is lower than an impurity concentration of the source/drain diffusion layer of the amplifier transistor.